

CLAIMS

WHAT IS CLAIMED IS:

5 1. A system for delivery of a drug to a patient comprising:
 a drug delivery device including a breath analyser which analyses a patient's
breathing and generates breath information on the patient's breathing during drug delivery;
 a data carrier onto which the drug delivery device is arranged to place the breath
information; and

10 a data analyser arranged to analyse the breath information from the data carrier,
and to derive characteristics of the patient's breathing.

15 2. A system according to claim 1, wherein the data analyser includes a trend
generator for analysing breath information and characteristics of the patient's breathing
over time.

20 3. A system according to claim 1, wherein the data analyser includes means for
identifying non-compliant use of the drug delivery device.

25 4. A system according to claim 3, wherein the data analyser includes a trend
generator for analysing breath information and characteristics of the patient's breathing
over time.

30 5. A method of optimizing treatment from a drug delivery device comprising:
 analysing a patient's breathing during drug delivery and generating breath
information from that breathing;
 transferring the breath information to a data analyser;
 deriving characteristics of the patient's breathing from the breath information; and
 identifying non-complaint use of the drug delivery device.

6. A method of identifying changes in condition of a patient over time of treatments
from a drug delivery device comprising:
 analysing a patient's breathing during drug delivery and generating breath
information from that breathing;

transferring the breath information to a data analyser;
deriving characteristics of the patient's breathing from the breath information; and
analysing the characteristics of the patient's treatments over time to identify trends
in those characteristics.